	Search Terms
1	APPARENT
2	APPARENTS
3	CURRENT
4	CURRENTS
5	DIFFERENTIAL
6	DIFFERENTIALS
7	DISTANCE
8	DISTANCES
9	IMPEDANCE
10	IMPEDANCES
11	RELAY
12	RELAYS
13	(((((IMPEDANCE SAME APPARENT) AND (IMPEDANCE SAME DISTANCE) AND RELAY) AND (DIFFERENTIAL SAME CURRENT))

	Total	USPAT	US-PGPU B	EPO	JPO	Derwent	IBM TDB	USOCR
1	1589252							
2	8							
3	1915400							
4	230572							
5	496394							
6	23923							
7	1552830							
8	230224							
9	232139							
10	28274							
11	238362							
12	66615							
13	15							

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	☐	☐	US 5592393 A	19970107	21	Method and system for providing protective relay functions	700/293
2	☒	☐	US 5485394 A	19960116	22	Fault location method for a parallel two-circuit transmission line with n terminals	702/59
3	☒	☐	US 4967159 A	19901030		Self-balancing reflectometer	324/650
4	☒	☐	US 4686531 A	19870811		Capacitance height gage applied in reticle position detection system for electron beam lithography apparatus	324/660
5	☒	☐	US 4538069 A	19850827		Capacitance height gage applied in reticle position detection system for electron beam lithography apparatus	250/491.1
6	☒	☐	US 4317151 A	19820223		Apparatus for fault direction-comparison protection	361/69
7	☒	☐	US 4308565 A	19811229		Method and apparatus for fault direction determination	361/80
8	☒	☐	US 4249124 A	19810203		Method and apparatus for monitoring faults by means of a polygonal trigger region	324/521
9	☒	☐	US 4079434 A	19780314		Out-of-step relay	361/79

	Current XRef Classif	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1	324/522; 361/20; 361/83		Yalla, Murty V. V. S.	☒	☐	☐	☐	☐	☐	☐
2	324/521		Murata, Kenji et al.	☐	☐	☐	☐	☐	☐	☐
3	324/642; 455/115.1; 455/125		Manes, Michael R.	☐	☐	☐	☐	☐	☐	☐
4	324/611; 324/661; 324/679; 324/725		Shambroom, John R. et al.	☐	☐	☐	☐	☐	☐	☐
5	250/492.2		Shambroom, John R. et al.	☐	☐	☐	☐	☐	☐	☐
6	361/81; 361/82		de Mesmaeker, Ivan et al.	☐	☐	☐	☐	☐	☐	☐
7	361/84		de Mesmaeker, Ivan et al.	☐	☐	☐	☐	☐	☐	☐
8	324/522; 361/80		De Mesmaeker, Ivan	☐	☐	☐	☐	☐	☐	☐
9	361/85		Elmore, Walter A.	☐	☐	☐	☐	☐	☐	☐

Image Doc. Displayed	PT
1 US 5592393	☐
2 US 5485394	☐
3	☐
4	☐
5	☐
6	☐
7	☐
8	☐
9	☐

	U	1	Document ID	Issue Date	Pages	Title	Current OR
10	☒	☐	US 4064377 A	19771220		Electronic hybrid and hybrid repeater	379/342
11	☒	☐	US 3808377 A	19740430		REMOTE SENSING CIRCUIT	379/385
12	☒	☐	US 3740613 A	19730619		APPARATUS FOR CONTROLLING THE ENERGIZATION OF A LOAD	361/27
13	☒	☐	US 3731152 A	19730501		IMPEDANCE DISTANCE RELAY	361/80
14	☒	☐	US 3702460 A	19721107		COMMUNICATIONS SYSTEM FOR ELECTRIC POWER UTILITY	340/3.1
15	☒	☐	WO 200178209 A	20030115		Line current differential protective relaying method and relay for in-zone tapped transformers used to protect over head power transmission lines using the application of current differential protection principles	

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
10	379/340; 379/345; 379/385; 379/405		Regan, John F.	☐	☐	☐	☐	☐	☐	☐
11	379/383		Young, John S.	☐	☐	☐	☐	☐	☐	☐
12	361/106; 361/58; 361/88		Strachan, Richard W.	☐	☐	☐	☐	☐	☐	☐
13	702/58		Rockefeller, Jr., George D.	☐	☐	☐	☐	☐	☐	☐
14	307/40; 340/310.02; 340/310.06; 340/310.07; 340/870.02; 702/62		Blose, John B.	☐	☐	☐	☐	☐	☐	☐
15			CAMPBELL, C B et al.	☐	☐	☐	☐	☐	☐	☐

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10	☐
11	☐
12	☐
13	☐
14	☐
15	☐

	Search Terms
1	CAMPBELL-COLIN-B
2	CURRENT
3	CURRENTS
4	DIFFERENTIAL
5	DIFFERENTIALS
6	KASZTENNY-BOGDAN-Z
7	(((KASZTENNY-BOGDAN-Z.IN.) OR (CAMPBELL-COLIN-B.IN.)) AND (DIFFERENTIAL SAME CURRENT

	Total	USPAT	US-PGPUB	EPO	JPO	Derwent	IBM TDB	USOCR
1	5							
2	1915400							
3	230572							
4	496394							
5	23923							
6	2							
7	1							

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	☐	☐	US 6442010 B1	20020827	20	Differential protective relay for electrical buses with improved immunity to saturation of current transformers	361/63

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1	361/78; 361/87; 361/93.1		Kasztenny, Bogdan Z. et al.	⊠	□	□	□	□	□	□

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US 6442010	☐

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